



## 1.2.1 Percentage of new courses introduced of the total number of courses across all programs offered during the last five years (20)

B.Tech			
Name of the Course	Course Code	Year of introduction (during the last five years)	Link to the relevant document
<b>R18 REGULATION - 2018-19</b>			
<b>CIVIL ENGINEERING</b>			
Mathematics – I (Linear Algebra and Calculus)	R18MTH1101	2018-19	<a href="https://sriindu.ac.in/wp-content/uploads/2019/09/R18-CIVIL-CS-SYLLABI.pdf">https://sriindu.ac.in/wp-content/uploads/2019/09/R18-CIVIL-CS-SYLLABI.pdf</a>
Programming for Problem Solving	R18CSE1101	2018-19	
Programming for Problem Solving Lab	R18CSE12L1	2018-19	
Induction Programme for Three Weeks	R18IPG1101	2018-19	
Constitution of India	R18COI1101	2018-19	
Essence of Indian Traditional Knowledge	R18ITK1101	2018-19	
Surveying & Geomatics	R18CIV2101	2018-19	
Probability Distributions and Statistical Methods	R18MTH2102	2018-19	
Gender Sensitization Lab	R18MAC2100	2018-19	
Computer aided Civil Engineering Drawing	R18CIV22L1	2018-19	
Intellectual Property Rights	R18MAC2200	2018-19	
Structural Engineering –I(RCC)	R18CIV3103	2018-19	
Management Fundamentals for Engineers	R18MBA3112	2018-19	
Basics of Mechanical Engineering	R18CIV3113	2018-19	
MOOCs-I	R18MAC3100	2018-19	
Hydrology & Water Resources Engineering	R18CIV3201	2018-19	
Engineering Economics & Accounting	R18MBA3201	2018-19	
Structural Engineering –II(Steel)	R18CIV3203	2018-19	
Prestressed Concrete Structures	R18CIV3221	2018-19	
Elements of Earth Quake Engineering	R18CIV3222	2018-19	
Finite Element Methods	R18CIV3223	2018-19	
Disaster Management & Mitigation	R18CIV3271	2018-19	
Computer Aided Design Lab	R18CIV32L2	2018-19	
MOOCs-II	R18MAC3200	2018-19	
Estimation, Costing and Project Management	R18CIV4101	2018-19	
Remote Sensing & GIS	R18CIV4131	2018-19	
Ground Improvement Techniques	R18CIV4132	2018-19	
Advance Structural Analysis	R18CIV4133	2018-19	
Irrigation and Hydraulic Structures	R18CIV4141	2018-19	
Theory of Elasticity	R18CIV4142	2018-19	



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Green Building Engineering	R18CIV4181	2018-19
Foundation Engineering	R18CIV4251	2018-19
Environmental Impact Assessment	R18CIV4252	2018-19
Airports, railways and water ways	R18CIV4261	2018-19
Intelligent Transportation Systems	R18CIV4262	2018-19
Urban Transportation Planning	R18CIV4263	2018-19
Remote Sensing Concepts	R18CIV4291	2018-19

## ELECTRICAL & ELECTRONICS ENGINEERING

Mathematics – I (Linear Algebra and Calculus)	R18MTH1101	2018-19
Induction Programme for Three Weeks	R18IPG1101	2018-19
Mathematics – II (Advanced Calculus)	R18MTH1201	2018-19
Programming for Problem Solving	R18CSE1101	2018-19
Programming for Problem Solving Lab	R18CSE12L1	2018-19
Constitution of India	R18COI1101	2018-19
Essence of Indian Traditional Knowledge	R18ITK1101	2018-19
Engineering Mechanics	R18MED1103	2018-19
Gender Sensitization Lab	R18MAC2100	2018-19
Laplace Transforms , Numerical Methods & Complex variables	R18MTH2201	2018-19
Intellectual Property Rights	R18MAC2200	2018-19
Computer Architecture	R18CSE3164	2018-19
Electric Machine Design	R18EEE3112	2018-19
Power System Simulation Lab	R18EEE31L1	2018-19
MOOCs-I	R18MAC3100	2018-19
Electrical Estimation & Costing	R18EEE3274	2018-19
Wind and Solar Energy systems	R18EEE3222	2018-19
Signals and Systems	R18ECE2103	2018-19
Power System Lab	R18EEE32L1	2018-19
Signals and Systems Lab	R18ECE32L4	2018-19
MOOCs-II	R18MAC3200	2018-19
Illumination Engineering	R18EEE4184	2018-19
Electrical and Hybrid Vehicles	R18EEE4133	2018-19
Power System Reliability	R18EEE4142	2018-19
Industrial Electrical Systems	R18EEE4143	2018-19
Fundamentals of Management for Engineers	R18MBA4101	2018-19
Electrical & Electronics Design Lab	R18EEE41L1	2018-19
Non Conventional Energy Resources	R18EEE4294	2018-19
Power Quality & FACTS	R18EEE4251	2018-19
Control System Design	R18EEE4252	2018-19
AI Techniques in Electrical Engineering	R18CSE4265	2018-19

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Smart Grid Technologies	R18EEE4261	2018-19	
Advanced Control of Electric Drives	R18EEE4263	2018-19	
<b>MECHANICAL ENGINEERING</b>			
Mathematics – I (Linear Algebra and Calculus)	R18MTH1101	2018-19	<a href="https://sriindu.ac.in/wp-content/uploads/2019/09/R18-MECHANICAL-CS-SYLLABI.pdf">https://sriindu.ac.in/wp-content/uploads/2019/09/R18-MECHANICAL-CS-SYLLABI.pdf</a>
Programming for Problem Solving	R18CSE1101	2018-19	
Programming for Problem Solving Lab	R18CSE12L1	2018-19	
Mathematics – II (Advanced Calculus)	R18MTH1201	2018-19	
Constitution of India	R18COI1101	2018-19	
Essence of Indian Traditional Knowledge	R18ITK1101	2018-19	
Probability Distribution & Complex Variables	R18MTH2101	2018-19	
Gender Sensitization Lab	R18MAC2100	2018-19	
Instrumentation & Control Systems Lab	R18MED22L2	2018-19	
Intellectual Property Rights	R18MAC2200	2018-19	
Kinematics & Dynamics Lab	R18MED31L3	2018-19	
MOOCs-I	R18MAC3100	2018-19	
Machine Tool Design	R18MED3212	2018-19	
Production Planning & Control	R18MED3213	2018-19	
Introduction to Robotics	R18MED3276	2018-19	
MOOCs-II	R18MAC3200	2018-19	
Additive Manufacturing	R18MED4121	2018-19	
Micro Electro Mechanical Systems (MEMS)	R18MED4123	2018-19	
Computational Fluid Dynamics	R18MED4141	2018-19	
Turbo Machinery	R18MED4142	2018-19	
Fluid Power Systems	R18MED4143	2018-19	
Production Operation and Management	R18MED4262	2018-19	
Tribology	R18MED4263	2018-19	
Total Engineering Quality Management	R18MED4296	2018-19	
<b>ELECTRONICS &amp; COMMUNICATION ENGINEERING</b>			
Mathematics – I (Linear Algebra and Calculus)	R18MTH1101	2018-19	<a href="https://sriindu.ac.in/wp-content/uploads/2019/09/R18-ECE-CS-SYLLABI.pdf">https://sriindu.ac.in/wp-content/uploads/2019/09/R18-ECE-CS-SYLLABI.pdf</a>
Induction Programme for Three Weeks	R18IPG1101	2018-19	
Mathematics – II (Advanced Calculus)	R18MTH1201	2018-19	
Programming for Problem Solving	R18CSE1101	2018-19	
Programming for Problem Solving Lab	R18CSE12L1	2018-19	
Constitution of India	R18COI1101	2018-19	
Essence of Indian Traditional Knowledge	R18ITK1101	2018-19	
Network Theory	R18EEE2107	2018 - 19	
Gender Sensitization Lab	R18MAC2100	2018 - 19	
Laplace Transforms, Numerical Methods & Complex Variables	R18MTH2201	2018 - 19	





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Intellectual Property Rights	R18MAC2200	2018 - 19
Data Communications and Networks	R18INF3103	2018 - 19
Coding Theory & Techniques	R18ECE3112	2018 - 19
MOOCs-I	R18MAC3100	2018 - 19
Internet of Things (IOT)	R18CSE4152	2018 - 19
Machine Learning	R18CSE3201	2018 - 19
e – CAD Lab	R18ECE32L2	2018 - 19
MOOCs-II	R18MAC3200	2018 - 19
Cryptography and Network Security	R18CSE4101	2018 - 19
Digital Signal Processors & Architectures	R18ECE4142	2018 - 19
System on Chip Architecture	R18ECE4143	2018 - 19
Low Power VLSI	R18ECE4252	2018 - 19
Wireless Sensor Networks	R18ECE4253	2018 - 19
Electronic Product Design & Packaging	R18ECE4262	2018 - 19
Consumer Electronics	R18ECE3273	2018 - 19
Principles of Modern Communication Systems	R18ECE4183	2018 - 19
Audio & Video Engineering	R18ECE4293	2018 - 19

## COMPUTER SCIENCE & ENGINEERING

Mathematics – I (Linear Algebra and Calculus)	R18MTH1101	2018-19
Induction Programme for Three Weeks	R18IPG1101	2018-19
Mathematics – II (Advanced Calculus)	R18MTH1201	2018-19
Programming for Problem Solving	R18CSE1101	2018-19
Programming for Problem Solving Lab	R18CSE12L1	2018-19
Constitution of India	R18COI1101	2018-19
Essence of Indian Traditional Knowledge	R18ITK1101	2018-19
Gender Sensitization Lab	R18MAC2100	2018-19
Intellectual Property Rights	R18MAC2200	2018-19
Analog Electronics	R18ECE2105	2018-19
Computer Oriented Statistical Methods	R18MTH2102	2018-19
Computer Organization & Architecture	R18CSE2102	2018-19
Object Oriented Programming using C++	R18CSE2103	2018-19
Analog Electronics Lab	R18ECE21L4	2018-19
C++ Programming Lab	R18CSE21L3	2018-19
Discrete Mathematics	R18CSE2201	2018-19
Digital Logic Design	R18ECE2102	2018-19
Advanced Computer Architecture	R18CSE3111	2018-19
Advanced Operating Systems	R18CSE3121	2018-19
Distributed Databases	R18CSE3123	2018-19
Computer Networks & Web Technologies Lab	R18CSE31L2	2018-19

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MOOCs-I	R18MAC3100	2018-19
Scripting Languages	R18CSE3232	2018-19
Mobile Application Development	R18CSE3233	2018-19
Database Concepts	R18CSE3272	2018-19
MOOCs-II	R18MAC3200	2018-19
Cryptography & Network Security	R18CSE4101	2018-19
Graph Theory	R18CSE4141	2018-19
Internet of Things	R18CSE4152	2018-19
Cryptography & Network Security Lab	R18CSE41L1	2018-19
Organizational Behaviour	R18HAS4201	2018-19
Human Computer Interaction	R18CSE4263	2018-19

## INFORMATION TECHNOLOGY

Mathematics – I (Linear Algebra and Calculus)	R18MTH1101	2018-19
Induction Programme for Three Weeks	R18IPG1101	2018-19
Mathematics – II (Advanced Calculus)	R18MTH1201	2018-19
Programming for Problem Solving	R18CSE1101	2018-19
Programming for Problem Solving Lab	R18CSE12L1	2018-19
Constitution of India	R18COI1101	2018-19
Essence of Indian Traditional Knowledge	R18ITK1101	2018-19
Gender Sensitization Lab	R18MAC2100	2018-19
Intellectual Property Rights	R18MAC2200	2018-19
Analog Electronics	R18ECE2105	2018-19
Computer Oriented Statistical Methods	R18MTH2102	2018-19
Computer Organization & Architecture	R18CSE2102	2018-19
Object Oriented Programming using C++	R18CSE2103	2018-19
Analog Electronics Lab	R18ECE21L4	2018-19
C++ Programming Lab	R18CSE21L3	2018-19
Discrete Mathematics	R18CSE2201	2018-19
Digital Logic Design	R18ECE2102	2018-19
Advanced Computer Architecture	R18CSE3111	2018-19
Advanced Operating Systems	R18CSE3121	2018-19
Distributed Databases	R18CSE3123	2018-19
Computer Networks & Web Technologies Lab	R18CSE31L2	2018-19
MOOCs-I	R18MAC3100	2018-19
Advanced Operating Systems	R18CSE3121	2018-19
Principles of Compiler Construction	R18INF3201	2018-19
MOOCs-II	R18MAC3200	2018-19
Internet of Things	R18CSE4152	2018-19
Distributed Databases	R18CSE3123	2018-19

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Software Process & Project Management	R18CSE4153	2018-19
Organizational Behaviour	R18HAS4201	2018-19
Distributed Systems	R18CSE4261	2018-19
Cyber Forensics	R18CSE4262	2018-19
Information Technology Essentials	R18INF3275	2018-19
E-Commerce	R18INF4185	2018-19
Information Security Fundamentals	R18INF4295	2018-19

## R20 REGULATION - 2020-21

### CIVIL ENGINEERING

Mathematics – I (Linear Algebra and Calculus)	R20MTH1101	2020-21
Programming for Problem Solving	R20CSE1101	2020-21
Programming for Problem Solving Lab	R20CSE12L1	2020-21
Induction Programme for Three Weeks	R20IPG1101	2020-21
Constitution of India	R20COI1101	2020-21
Essence of Indian Traditional Knowledge	R20ITK1101	2020-21
Surveying & Geomatics	R20CIV2101	2020-21
Probability Distributions and Statistical Methods	R20MTH2102	2020-21
Gender Sensitization Lab	R20MAC2100	2020-21
Computer aided Civil Engineering Drawing	R20CIV22L1	2020-21
Intellectual Property Rights	R20MAC2200	2020-21
Structural Engineering –I(RCC)	R20CIV3103	2020-21
Management Fundamentals for Engineers	R20MBA3112	2020-21
Basics of Mechanical Engineering	R20CIV3113	2020-21
MOOCs-I	R20MAC3100	2020-21
Hydrology & Water Resources Engineering	R20CIV3201	2020-21
Engineering Economics & Accounting	R20MBA3201	2020-21
Structural Engineering –II(Steel)	R20CIV3203	2020-21
Prestressed Concrete Structures	R20CIV3221	2020-21
Elements of Earth Quake Engineering	R20CIV3222	2020-21
Finite Element Methods	R20CIV3223	2020-21
Disaster Management & Mitigation	R20CIV3271	2020-21
Computer Aided Design Lab	R20CIV32L2	2020-21
MOOCs-II	R20MAC3200	2020-21
Estimation, Costing and Project Management	R20CIV4101	2020-21
Remote Sensing & GIS	R20CIV4131	2020-21
Ground Improvement Techniques	R20CIV4132	2020-21
Advance Structural Analysis	R20CIV4133	2020-21
Irrigation and Hydraulic Structures	R20CIV4141	2020-21
Theory of Elasticity	R20CIV4142	2020-21

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Green Building Engineering	R20CIV4181	2020-21
Foundation Engineering	R20CIV4251	2020-21
Environmental Impact Assessment	R20CIV4252	2020-21
Airports, railways and water ways	R20CIV4261	2020-21
Intelligent Transportation Systems	R20CIV4262	2020-21
Urban Transportation Planning	R20CIV4263	2020-21
Remote Sensing Concepts	R20CIV4291	2020-21

## ELECTRICAL & ELECTRONICS ENGINEERING

Mathematics – I (Linear Algebra and Calculus)	R20MTH1101	2020-21
Induction Programme for Three Weeks	R20IPG1101	2020-21
Mathematics – II (Advanced Calculus)	R20MTH1201	2020-21
Programming for Problem Solving	R20CSE1101	2020-21
Programming for Problem Solving Lab	R20CSE12L1	2020-21
Constitution of India	R20COI1101	2020-21
Essence of Indian Traditional Knowledge	R20ITK1101	2020-21
Engineering Mechanics	R20MED1103	2020-21
Gender Sensitization Lab	R20MAC2100	2020-21
Laplace Transforms , Numerical Methods & Complex variables	R20MTH2201	2020-21
Intellectual Property Rights	R20MAC2200	2020-21
Computer Architecture	R20CSE3164	2020-21
Electric Machine Design	R20EEE3112	2020-21
Power System Simulation Lab	R20EEE31L1	2020-21
MOOCs-I	R20MAC3100	2020-21
Electrical Estimation & Costing	R20EEE3274	2020-21
Wind and Solar Energy systems	R20EEE3222	2020-21
Signals and Systems	R20ECE2103	2020-21
Power System Lab	R20EEE32L1	2020-21
Signals and Systems Lab	R20ECE32L4	2020-21
MOOCs-II	R20MAC3200	2020-21
Illumination Engineering	R20EEE4184	2020-21
Electrical and Hybrid Vehicles	R20EEE4133	2020-21
Power System Reliability	R20EEE4142	2020-21
Industrial Electrical Systems	R20EEE4143	2020-21
Fundamentals of Management for Engineers	R20MBA4101	2020-21
Electrical & Electronics Design Lab	R20EEE41L1	2020-21
Non Conventional Energy Resources	R20EEE4294	2020-21
Power Quality & FACTS	R20EEE4251	2020-21
Control System Design	R20EEE4252	2020-21
AI Techniques in Electrical Engineering	R20CSE4265	2020-21

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Smart Grid Technologies	R20EEE4261	2020-21	
Advanced Control of Electric Drives	R20EEE4263	2020-21	

## MECHANICAL ENGINEERING

Mathematics – I (Linear Algebra and Calculus)	R20MTH1101	2020-21	
Programming for Problem Solving	R20CSE1101	2020-21	
Programming for Problem Solving Lab	R20CSE12L1	2020-21	
Mathematics – II (Advanced Calculus)	R20MTH1201	2020-21	
Constitution of India	R20COI1101	2020-21	
Essence of Indian Traditional Knowledge	R20ITK1101	2020-21	
Probability Distribution & Complex Variables	R20MTH2101	2020-21	
Gender Sensitization Lab	R20MAC2100	2020-21	
Instrumentation & Control Systems Lab	R20MED22L2	2020-21	
Intellectual Property Rights	R20MAC2200	2020-21	
Kinematics & Dynamics Lab	R20MED31L3	2020-21	
MOOCs-I	R20MAC3100	2020-21	
Machine Tool Design	R20MED3212	2020-21	
Production Planning & Control	R20MED3213	2020-21	
Introduction to Robotics	R20MED3276	2020-21	
MOOCs-II	R20MAC3200	2020-21	
Additive Manufacturing	R20MED4121	2020-21	
Micro Electro Mechanical Systems (MEMS)	R20MED4123	2020-21	
Computational Fluid Dynamics	R20MED4141	2020-21	
Turbo Machinery	R20MED4142	2020-21	
Fluid Power Systems	R20MED4143	2020-21	
Production Operation and Management	R20MED4262	2020-21	
Tribology	R20MED4263	2020-21	
Total Engineering Quality Management	R20MED4296	2020-21	

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## ELECTRONICS & COMMUNICATION ENGINEERING

Mathematics – I (Linear Algebra and Calculus)	R20MTH1101	2020-21	
Induction Programme for Three Weeks	R20IPG1101	2020-21	
Mathematics – II (Advanced Calculus)	R20MTH1201	2020-21	
Programming for Problem Solving	R20CSE1101	2020-21	
Programming for Problem Solving Lab	R20CSE12L1	2020-21	
Constitution of India	R20COI1101	2020-21	
Essence of Indian Traditional Knowledge	R20ITK1101	2020-21	
Network Theory	R20EEE2107	2020-21	
Gender Sensitization Lab	R20MAC2100	2020-21	
Laplace Transforms, Numerical Methods & Complex Variables	R20MTH2201	2020-21	

<https://sriindu.ac.in/wp-content/uploads/2021/10/BR20-CBCS-ACADEMIC-GUIDELINES-I-II-III-IV-year-syllabus-2021-ECE.pdf>

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Intellectual Property Rights	R20MAC2200	2020-21
Data Communications and Networks	R20INF3103	2020-21
Coding Theory & Techniques	R20ECE3112	2020-21
MOOCs-I	R20MAC3100	2020-21
Internet of Things (IOT)	R20CSE4152	2020-21
Machine Learning	R20CSE3201	2020-21
e – CAD Lab	R20ECE32L2	2020-21
MOOCs-II	R20MAC3200	2020-21
Cryptography and Network Security	R20CSE4101	2020-21
Digital Signal Processors & Architectures	R20ECE4142	2020-21
System on Chip Architecture	R20ECE4143	2020-21
Low Power VLSI	R20ECE4252	2020-21
Wireless Sensor Networks	R20ECE4253	2020-21
Electronic Product Design & Packaging	R20ECE4262	2020-21
Consumer Electronics	R20ECE3273	2020-21
Principles of Modern Communication Systems	R20ECE4183	2020-21
Audio & Video Engineering	R20ECE4293	2020-21

## COMPUTER SCIENCE & ENGINEERING

Mathematics – I (Linear Algebra and Calculus)	R20MTH1101	2020-21
Induction Programme for Three Weeks	R20IPG1101	2020-21
Mathematics – II (Advanced Calculus)	R20MTH1201	2020-21
Programming for Problem Solving	R20CSE1101	2020-21
Programming for Problem Solving Lab	R20CSE12L1	2020-21
Constitution of India	R20COI1101	2020-21
Essence of Indian Traditional Knowledge	R20ITK1101	2020-21
Gender Sensitization Lab	R20MAC2100	2020-21
Intellectual Property Rights	R20MAC2200	2020-21
Analog Electronics	R20ECE2105	2020-21
Computer Oriented Statistical Methods	R20MTH2102	2020-21
Computer Organization & Architecture	R20CSE2102	2020-21
Object Oriented Programming using C++	R20CSE2103	2020-21
Analog Electronics Lab	R20ECE21L4	2020-21
C++ Programming Lab	R20CSE21L3	2020-21
Discrete Mathematics	R20CSE2201	2020-21
Digital Logic Design	R20ECE2102	2020-21
Advanced Computer Architecture	R20CSE3111	2020-21
Advanced Operating Systems	R20CSE3121	2020-21
Distributed Databases	R20CSE3123	2020-21
Computer Networks & Web Technologies Lab	R20CSE31L2	2020-21

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MOOCs-I	R20MAC3100	2020-21
Scripting Languages	R20CSE3232	2020-21
Mobile Application Development	R20CSE3233	2020-21
Database Concepts	R20CSE3272	2020-21
MOOCs-II	R20MAC3200	2020-21
Cryptography & Network Security	R20CSE4101	2020-21
Graph Theory	R20CSE4141	2020-21
Internet of Things	R20CSE4152	2020-21
Cryptography & Network Security Lab	R20CSE41L1	2020-21
Organizational Behaviour	R20HAS4201	2020-21
Human Computer Interaction	R20CSE4263	2020-21

## INFORMATION TECHNOLOGY

Mathematics – I (Linear Algebra and Calculus)	R20MTH1101	2020-21
Induction Programme for Three Weeks	R20IPG1101	2020-21
Mathematics – II (Advanced Calculus)	R20MTH1201	2020-21
Programming for Problem Solving	R20CSE1101	2020-21
Programming for Problem Solving Lab	R20CSE12L1	2020-21
Constitution of India	R20COI1101	2020-21
Essence of Indian Traditional Knowledge	R20ITK1101	2020-21
Gender Sensitization Lab	R20MAC2100	2020-21
Intellectual Property Rights	R20MAC2200	2020-21
Analog Electronics	R20ECE2105	2020-21
Computer Oriented Statistical Methods	R20MTH2102	2020-21
Computer Organization & Architecture	R20CSE2102	2020-21
Object Oriented Programming using C++	R20CSE2103	2020-21
Analog Electronics Lab	R20ECE21L4	2020-21
C++ Programming Lab	R20CSE21L3	2020-21
Discrete Mathematics	R20CSE2201	2020-21
Digital Logic Design	R20ECE2102	2020-21
Advanced Computer Architecture	R20CSE3111	2020-21
Advanced Operating Systems	R20CSE3121	2020-21
Distributed Databases	R20CSE3123	2020-21
Computer Networks & Web Technologies Lab	R20CSE31L2	2020-21
MOOCs-I	R20MAC3100	2020-21
Advanced Operating Systems	R20CSE3121	2020-21
Principles of Compiler Construction	R20INF3201	2020-21
MOOCs-II	R20MAC3200	2020-21
Internet of Things	R20CSE4152	2020-21
Distributed Databases	R20CSE3123	2020-21

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Software Process & Project Management	R20CSE4153	2020-21
Organizational Behaviour	R20HAS4201	2020-21
Distributed Systems	R20CSE4261	2020-21
Cyber Forensics	R20CSE4262	2020-21
Information Technology Essentials	R20INF3275	2020-21
E-Commerce	R20INF4185	2020-21
Information Security Fundamentals	R20INF4295	2020-21

## CSE (DATA SCIENCE)

Mathematics – I (Linear Algebra and Calculus)	R20MTH1101	2020-21
Induction Programme for Three Weeks	R20IPG1101	2020-21
Mathematics – II (Advanced Calculus)	R20MTH1201	2020-21
Programming for Problem Solving	R20CSE1101	2020-21
Programming for Problem Solving Lab	R20CSE12L1	2020-21
Constitution of India	R20COI1101	2020-21
Essence of Indian Traditional Knowledge	R20ITK1101	2020-21
Mathematical and Statistical Foundations	R20MTH2104	2020-21
Python Programming	R20CSE2104	2020-21
Python Programming Lab	R20CSE21L4	2020-21
Introduction to Data Science	R20CSD3101	2020-21
Data Warehousing & Data Mining	R20CSD3102	2020-21
Pattern Recognition	R20INF4142	2020-21
Computer Vision and Robotics	R20CSM3104	2020-21
Data Warehousing & Data Mining Lab	R20CSD31L1	2020-21
Computer Networks Lab	R20CSE22L4	2020-21
Software Testing & CASE Tools Lab	R20CSD31L2	2020-21
Big Data Analytics	R20CSD3201	2020-21
MOOCs-II	R20MAC3200	2020-21
Machine Learning Lab	R20CSE32L1	2020-21
IoT Lab	R20CSO32L1	2020-21
Predictive Analytics	R20CSD4101	2020-21
Web and Social Media Analytics	R20CSD4102	2020-21
Quantum Computing	R20CSE4102	2020-21
Database Security	R20CSD4103	2020-21
Natural Language Processing	R20CSM4103	2020-21
Information Storage Management	R20CSD4104	2020-21
Privacy Preserving in Data Mining	R20CSD4105	2020-21
Data Science Applications	R20CSD4106	2020-21
Mining Massive Datasets	R20CSD4109	2020-21
Exploratory Data Analysis	R20CSE4107	2020-21

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Web and Social Media Analytics Lab	R20CSD41L1	2020-21
Data Stream Mining	R20CSD4201	2020-21
Web Security	R20CSI4101	2020-21
Video Analytics	R20CSD4203	2020-21
Blockchain Technology	R20CSC3203	2020-21
Parallel and Distributed Computing	R20CSD4204	2020-21

## CSE (CYBER SECURITY)

Mathematics – I (Linear Algebra and Calculus)	R20MTH1101	2020-21
Induction Programme for Three Weeks	R20IPG1101	2020-21
Mathematics – II (Advanced Calculus)	R20MTH1201	2020-21
Programming for Problem Solving	R20CSE1101	2020-21
Programming for Problem Solving Lab	R20CSE12L1	2020-21
Constitution of India	R20COI1101	2020-21
Essence of Indian Traditional Knowledge	R20ITK1101	2020-21
Mathematical and Statistical Foundations	R20MTH2104	2020-21
Python Programming	R20CSE2104	2020-21
Analog and Digital Electronics Lab	R20ECE21L5	2020-21
Python Programming Lab	R20CSE21L4	2020-21
Gender Sensitization Lab (An Activity-based Course)	R20MAC2100	2020-21
Fundamentals of Networking	R20CSC2201	2020-21
Intellectual Property Rights	R20MAC2200	2020-21
Multimedia and Spatial Databases	R20CSM3103	2020-21
Adhoc Sensor Networks	R20INF4141	2020-21
MOOCs-I	R20MAC3100	2020-21
Ethical Hacking	R20CSC3102	2020-21
Introduction to Data Science	R20CSD3101	2020-21
Cyber Laws	R20CSC3103	2020-21
IOT Security	R20CSO3104	2020-21
Artificial Intelligence Lab	R20CSM31L1	2020-21
Cyber Security	R20CSC3201	2020-21
Cyber Crime Investigation and Digital Forensics	R20CSC3202	2020-21
DevOps	R20CSM3204	2020-21
Block Chain Technology	R20CSC3203	2020-21
MOOCs-II	R20MAC3200	2020-21
Vulnerability Assessment & Penetration Testing	R20CSC4101	2020-21
Network Management Systems and Operations	R20CSC4102	2020-21
Edge Analytics	R20CSC4109	2020-21
Web & Database Security	R20CSC4105	2020-21
Computer Security & Audit Assurance	R20CSC4108	2020-21

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Social Media Security	R20CSC4107	2020-21
Deep Learning	R20CSM4101	2020-21
Quantum Computing	R20CSE4102	2020-21
Data Analytics for Fraud Detection	R20CSC4106	2020-21
5G Technologies	R20CSC4104	2020-21
Security Incident & Response Management (SOC)	R20INF4104	2020-21
Authentication Techniques	R20CSC4103	2020-21
Vulnerability Assessment & Penetration Testing Lab	R20CSC41L1	2020-21
Quantum Cryptography	R20CSE4202	2020-21
IoT Cloud Processing and Analytics	R20CSO4204	2020-21
Cloud Security	R20CSC4201	2020-21
Digital Watermarking and Steganography	R20CSC4205	2020-21
Data Privacy	R20CSC4204	2020-21
<b>CSE (ARTIFICIAL INTELLIGENCE &amp; MACHINE LEARNING)</b>		
Mathematics – I (Linear Algebra and Calculus)	R20MTH1101	2020-21
Induction Programme for Three Weeks	R20IPG1101	2020-21
Mathematics – II (Advanced Calculus)	R20MTH1201	2020-21
Programming for Problem Solving	R20CSE1101	2020-21
Programming for Problem Solving Lab	R20CSE12L1	2020-21
Constitution of India	R20COI1101	2020-21
Essence of Indian Traditional Knowledge	R20ITK1101	2020-21
Computer Vision and Robotics	R20CSM3104	2020-21
Compiler Construction	R20CSM3101	2020-21
Data Mining Concepts	R20CSM3102	2020-21
Multimedia and Spatial Databases	R20CSM3103	2020-21
Artificial Intelligence Lab	R20CSM31L1	2020-21
DevOps	R20CSM3204	2020-21
Natural Language Processing	R20CSM3201	2020-21
Data Visualization Techniques	R20CSM3202	2020-21
Web Technologies Lab	R20CSM32L1	2020-21
Neural Networks & Deep Learning	R20CSM4101	2020-21
Expert Systems	R20CSM4104	2020-21
Conversational AI	R20CSM4105	2020-21
Game Theory	R20CSM4106	2020-21
Mobile Computing	R20CSM4102	2020-21
Social Network Analysis	R20CSM4107	2020-21
Federated Machine Learning	R20CSM4201	2020-21
Deep Learning Lab	R20CSM41L1	2020-21

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Cognitive Computing	R20CSM4202	2020-21
Semantic Web	R20CSM4204	2020-21
Project Work	R20CSM42P1	2020-21

## CSE (INTERNET of THINGS)

Mathematics – I (Linear Algebra and Calculus)	R20MTH1101	2020-21
Induction Programme for Three Weeks	R20IPG1101	2020-21
Mathematics – II (Advanced Calculus)	R20MTH1201	2020-21
Programming for Problem Solving	R20CSE1101	2020-21
Programming for Problem Solving Lab	R20CSE12L1	2020-21
Constitution of India	R20COI1101	2020-21
Essence of Indian Traditional Knowledge	R20ITK1101	2020-21
Fundamentals of Networking	R20CSC2201	2020-21
Finite Automata & Compiler Design	R20CSC3101	2020-21
IoT Communication Protocol	R20CSO3102	2020-21
Data Warehousing & Data Mining	R20CSD3102	2020-21
Real Time Systems	R20CSO3103	2020-21
IoT Lab	R20CSO32L1	2020-21
Computer Vision and Robotics	R20CSM3104	2020-21
IoT Cloud Processing and Analytics	R20CSO4101	2020-21
IoT Security	R20CSO4102	2020-21
IoT Automation	R20CSO4104	2020-21
Embedded Software Design	R20CSO4106	2020-21
5G & IoT Technologies	R2041CSO04	2020-21
Edge Computing	R20CSO4105	2020-21
IoT Security & Cloud Computing Lab	R20CSO41L1	2020-21
Technical Seminar	R20CSO41P1	2020-21
Comprehensive Viva-voce	R20CSO41P2	2020-21
Industrial Oriented Mini Project / Summer Internship	R20CSO41P3	2020-21
Industrial IoT	R20CSO4203	2020-21
Fog Computing	R20CSO4202	2020-21
Smart Sensor Technologies	R20ECE4202	2020-21
Digital Forensics	R20CSO4201	2020-21
Blockchain Technology	R20CSC3203	2020-21
Project Work	R20CSO42P1	2020-21

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## COMPUTER SCIENCE & INFORMATION TECHNOLOGY

Mathematics – I (Linear Algebra and Calculus)	R20MTH1101	2020-21
Induction Programme for Three Weeks	R20IPG1101	2020-21
Mathematics – II (Advanced Calculus)	R20MTH1201	2020-21

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Programming for Problem Solving	R20CSE1101	2020-21	<a href="#">GUIDELINES-II-year-syllabus-2021-CSE-CSIT.pdf</a>
Programming for Problem Solving Lab	R20CSE12L1	2020-21	
Constitution of India	R20COI1101	2020-21	
Essence of Indian Traditional Knowledge	R20ITK1101	2020-21	
Gender Sensitization Lab (An Activity-based Course)	R20MAC2100	2020-21	
Data Communication & Computer Networks	R20INF3101	2020-21	
Computer Graphics	R20INF3122	2020-21	
Principles of Compiler Construction	R20INF3201	2020-21	
Algorithm Design and Analysis	R20INF3202	2020-21	
Compiler Construction Lab	R20INF32L1	2020-21	
Information Security	R20INF4101	2020-21	
Pattern Recognition	R20INF4142	2020-21	
Adhoc Sensor Networks	R20INF4141	2020-21	
Information Security Lab	R20INF41L1	2020-21	
Technical Seminar	R20INF41P1	2020-21	
Comprehensive Viva-voce	R20INF41P2	2020-21	
Industrial Oriented Mini Project/ Summer Internship	R20INF41P3	2020-21	
Project Work	R20INF42P1	2020-21	

## ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Mathematics – I (Linear Algebra and Calculus)	R20MTH1101	2020-21
Chemistry	R20ECH1101	2020-21
Basic Electrical Engineering	R20EEE1101	2020-21
Engineering Workshop	R20MED1101	2020-21
English	R20HAS1101	2020-21
Engineering Chemistry Lab	R20ECH11L1	2020-21
English Language and Communication Skills lab	R20HAS11L2	2020-21
Basic Electrical Engineering Lab	R20EEE11L3	2020-21
Environmental Science	R20HAS1102	2020-21
Induction Programme for Three Weeks	R20IPG1101	2020-21
Mathematics – II (Advanced Calculus)	R20MTH1201	2020-21
Applied Physics	R20EAP1201	2020-21
Programming for Problem Solving	R20CSE1101	2020-21
Engineering Graphics	R20MED1102	2020-21
Applied Physics Lab	R20EAP12L1	2020-21
Programming for Problem Solving Lab	R20CSE11L2	2020-21
Essence of Indian Traditional Knowledge	R20ITK1101	2020-21
Mathematical and Statistical Foundations	R20MTH2104	2020-21
Business Economics & Financial Analysis	R20MBA2201	2020-21

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Gender Sensitization Lab (An Activity-based Course)	R20MAC2100	2020-21
Intellectual Property Rights	R20MAC2200	2020-21
Introduction to Data Science	R20AID3102	2020-21
Data Warehousing and Business Intelligence	R20AID3204	2020-21
Introduction to Data Science Using R Lab	R20AID31L1	2020-21
Big Data Analytics Laboratory	R20AID21L1	2020-21
Advanced Communication Skills Lab	R20HAS31L1	2020-21
Introduction to Predictive Analytics	R20AID4101	2020-21
Technical Seminar	R20AID41P1	2020-21
Comprehensive Viva-voce	R20AID41P2	2020-21
Industrial Oriented Mini Project/Summer Internship	R20AID41P3	2020-21
Speech and Video Processing	R20AID4202	2020-21
Project Work	R20AID42P1	2020-21

## R22 REGULATION - 2022-23

### CIVIL ENGINEERING

Matrices and Calculus	R22MTH1111	2022-23
Applied Physics	R22APH1112	2022-23
C Programming and Data Structures	R22CSE1115	2022-23
English for Skill Enhancement	R22HAS1115	2022-23
Elements of Civil Engineering	R22CIV1126	2022-23
Applied Physics Laboratory	R22APH1127	2022-23
C Programming and Data Structures Laboratory	R22CSE1129	2022-23
Ordinary Differential Equations and Vector Calculus	R22MTH1211	2022-23
Applied Mechanics	R22MED1213	2022-23
Surveying	R22CIV1215	2022-23
Python Programming Laboratory	R22CSE1227	2022-23
Computer Aided Drafting Laboratory	R22CIV2128	2022-23
Concrete Technology	R22CIV2212	2022-23
Concrete Technology Laboratory	R22CIV2228	2022-23
Real-time Research Project/ Field-Based Project	R22CIV2269	2022-23
Transportation Engineering Laboratory	R22CIV3127	2022-23
Structural Engineering -II (Steel Structures)	R22CIV3213	2022-23
Management Fundamentals for Engineers	R22HMS3244	2022-23
Basics of Mechanical Engineering	R22MED3244	2022-23
Industry Oriented Mini Project/ Internship	R22CIV3269	2022-23
Environmental Science	R22MAC1110	2022-23

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Quantity Survey & Valuation	R22CIV4111	2022-23
Project Management	R22CIV4112	2022-23
Prestressed Concrete Structures	R22CIV4141	2022-23
Civil Engineering Software Laboratory	R22CIV4127	2022-23
Project Stage - I	R22CIV4168	2022-23
Advanced Foundation Engineering	R22CIV4243	2022-23
Project Stage – II including seminar	R22CIV4264	2022-23

## ELECTRICAL & ELECTRONICS ENGINEERING

Matrices and Calculus	R22MTH1111	2022-23
C Programming and Data Structures	R22CSE1115	2022-23
Computer Aided Engineering Graphics	R22MED1125	2022-23
Elements of Electrical and Electronics Engineering	R22EEE1126	2022-23
C Programming and Data Structures Laboratory	R22CSE1129	2022-23
Induction Program		2022-23
Ordinary Differential Equations and Vector Calculus	R22MTH1211	2022-23
Electrical Circuit Analysis - II	R22EEE1215	2022-23
Python Programming Laboratory	R22CSE1227	2022-23
Electrical Circuit Analysis Laboratory	R22EEE1229	2022-23
Solid Mechanics & Hydraulic Machines	R22MED2241	2022-23
Real-time Research Project/ Field Based Project	R22EEE2269	2022-23
IoT Applications in Electrical Engineering	R22CSI3144	2022-23
Cyber-Physical Systems	R22CSC3242	2022-23
Industry Oriented Mini Project/ Internship	R22EEE3269	2022-23
Power Electronic Applications to Renewable Energy Systems	R22EEE4111	2022-23
Mobile Application Development	R22CSE3247	2022-23
Embedded Applications	R22CSE4114	2022-23
Simulation of Renewable Energy Systems Laboratory	R22EEE4126	2022-23
Project Stage - I	R22EEE4167	2022-23
Smart Grid Technologies	R22EEE4243	2022-23
Project Stage – II including Seminar	R22EEE4264	2022-23

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## MECHANICAL ENGINEERING

Matrices and Calculus	R22MTH1111	2022-23
Applied Physics	R22APH1112	2022-23
C Programming and Data Structures	R22CSE1115	2022-23
English for Skill Enhancement	R22HAS1115	2022-23

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Elements of Mechanical Engineering	R22MED1126	2022-23
Applied Physics Laboratory	R22APH1127	2022-23
C Programming and Data Structures Laboratory	R22CSE1129	2022-23
Ordinary Differential Equations and Vector Calculus	R22MTH1211	2022-23
Engineering Materials	R22MED1215	2022-23
Python Programming Laboratory	R22CSE1227	2022-23
Fuels & Lubricants Laboratory	R22MED1228	2022-23
Real-time Research Project/ Field-Based Project	R22MED2269	2022-23
Steam Power & Jet Propulsion	R22MED3115	2022-23
Mechanical Vibrations	R22MED3241	2022-23
Industry Oriented Mini Project/ Internship	R22MED3269	2022-23
Solar Energy Technology	R22MED4147	2022-23
Fundamentals of Electric and Hybrid Vehicles	R22MED4148	2022-23
Re-Engineering	R22MED4165	2022-23
Project Stage - I	R22MED4167	2022-23
Energy Conservation and Management	R22MED4248	2022-23
Fuzzy Logic and ANN	R22MED4245	2022-23
Industry 4.0	R22MED4246	2022-23
Total Quality Management	R22MED4247	2022-23
Project Stage – II including seminar	R22MED4264	2022-23

## ELECTRONICS & COMMUNICATION ENGINEERING

Matrices and Calculus	R22MTH1111	2022-23
C Programming for Engineers	R22CSE1116	2022-23
English for Skill Enhancement	R22HAS1115	2022-23
Elements of Electronics and Communication Engineering	R22ECE1126	2022-23
C Programming for Engineers Laboratory	R22CSE1127	2022-23
Induction Programme		2022-23
Ordinary Differential Equations and Vector Calculus	R22MTH1211	2022-23
Applied Python Programming Laboratory	R22CSE1224	2022-23
Real Time Project/ Field Based Project	R22ECE2269	2022-23

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Multimedia Database Management Systems	R22CSE3243	2022-23
Industry Oriented Mini Project/ Internship	R22ECE3269	2022-23
CMOS Analog IC Design	R22ECE4145	2022-23
Artificial Neural Networks	R22ECE4142	2022-23
Cryptography and Network Security	R22CSE4111	2022-23
Project Stage – I	R22ECE4167	2022-23
Artificial Intelligence	R22CSM4143	2022-23
Machine learning	R22CSM3112	2022-23
System on Chip Architecture	R22ECE4242	2022-23
Project Stage – II including Seminar	R22ECE4264	2022-23

## COMPUTER SCIENCE & ENGINEERING

Matrices and Calculus	R22MTH1111	2022-23
Elements of Computer Science & Engineering	R22CSE1126	2022-23
Ordinary Differential Equations and Vector Calculus	R22MTH1211	2022-23
English for Skill Enhancement	R22HAS1115	2022-23
Electronic Devices and Circuits	R22ECE1215	2022-23
Python Programming Laboratory	R22CSE1227	2022-23
Digital Electronics	R22ECE2112	2022-23
Computer Oriented Statistical Methods	R22MTH2114	2022-23
Object Oriented Programming through Java	R22CSE2115	2022-23
Object Oriented Programming through Java Lab	R22CSE2127	2022-23
Skill Development Course (Data visualization- R Programming/ Power BI)	R22CSE2129	2022-23
Real-time Research Project/ Societal Related Project	R22CSE2268	2022-23
Skill Development Course (Node JS/ React JS/Django)	R22CSE2221	2022-23
DevOps	R22CSE3113	2022-23
Quantum Computing	R22EEE4144	2022-23
Data Analytics	R22CSE3141	2022-23
Image Processing	R22ECE3142	2022-23
Computer Graphics	R22CSE3144	2022-23
Data Warehousing and Data Mining	R22CSD3143	2022-23
Distributed Databases	R22CSE3146	2022-23
Natural Language Processing	R22CSM3213	2022-23
DevOps Lab	R22CSE3127	2022-23
Skill Development Course (UI design- Flutter)	R22CSE3121	2022-23
Scripting Languages Lab	R22CSE3252	2022-23
Software Testing Methodologies Lab	R22CSE3253	2022-23

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Mobile Application Development Lab	R22CSE3258	2022-23
Internet Of Things Lab	R22CSO2128	2022-23
Industrial Oriented Mini Project/ Internship/ Skill Development Course (Big data-Spark)	R22CSE3268	2022-23
Ad hoc & Sensor Networks	R22CSE4141	2022-23
Advanced Algorithms	R22CSE4146	2022-23
Agile Methodology	R22CSE4147	2022-23
Robotic Process Automation	R22EEE4242	2022-23
Blockchain Technology	R22CSE4244	2022-23
Project Stage - I	R22CSE4168	2022-23
Computational Complexity	R22CSE4245	2022-23
Deep Learning	R22CSM4111	2022-23
Human Computer Interaction	R22INF4142	2022-23
Project Stage – II including Seminar	R22CSE4264	2022-23
<b>INFORMATION TECHNOLOGY</b>		
Matrices and Calculus	R22MTH1111	2022-23
Elements of Computer Science & Engineering	R22CSE1126	2022-23
Ordinary Differential Equations and Vector Calculus	R22MTH1211	2022-23
English for Skill Enhancement	R22HAS1115	2022-23
Electronic Devices and Circuits	R22ECE1215	2022-23
Python Programming Laboratory	R22CSE1227	2022-23
Digital Electronics	R22ECE2112	2022-23
Computer Oriented Statistical Methods	R22MTH2114	2022-23
Computer Organization and Microprocessor	R22ECE2116	2022-23
Introduction to IoT	R22CSO2115	2022-23
Digital Electronics Lab	R22ECE2126	2022-23
Internet of Things Lab	R22CSO2128	2022-23
Skill Development Course (Data visualization- R Programming/ Power BI)	R22CSE2129	2022-23
Real-time Research Project/ Societal Related Project	R22INF2269	2022-23
Skill Development Course (Node JS/ React JS/Django)	R22CSE2221	2022-23
Biometrics	R22INF3143	2022-23
Data Analytics	R22CSE3141	2022-23
Image Processing	R22ECE3142	2022-23
Quantum Computing	R22EEE4144	2022-23
Software Engineering & Computer Networks Lab	R22INF3126	2022-23

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Skill Development Course (UI design- Flutter)	R22CSE3121	2022-23
Automata Theory and Compiler Design	R22CSM2212	2022-23
Embedded Systems	R22CSE3147	2022-23
Embedded Systems Lab	R22CSE3227	2022-23
Mobile Application Development Lab	R22CSE3258	2022-23
Software Testing Methodologies Lab	R22CSE3253	2022-23
Industrial Oriented Mini Project/ Internship/ Skill Development Course (Big data-Spark)	R22INF3269	2022-23
High Performance Computing	R22CST4143	2022-23
Information Retrieval Systems	R22CSE3149	2022-23
Intrusion Detection Systems	R22INF4143	2022-23
Real Time Systems	R22INF4144	2022-23
Blockchain Technology	R22CSE4244	2022-23
Deep Learning	R22CSM4111	2022-23
Project Stage - I	R22INF4168	2022-23
Natural Language Processing	R22CSM3213	2022-23
Augmented Reality & Virtual Reality	R22CSE3148	2022-23
Web Security	R22CSI4241	2022-23
Project Stage – II including Seminar	R22INF4264	2022-23

## CSE (ARTIFICIAL INTELLIGENCE & MACHINE LEARNING)

Matrices and Calculus	R22MTH1111	2022-23
English for Skill Enhancement	R22HAS1115	2022-23
Elements of Computer Science & Engineering	R22CSE1126	2022-23
Ordinary Differential Equations and Vector Calculus	R22MTH1211	2022-23
Computer Aided Engineering Graphics	R22MED1125	2022-23
Electronic Devices and Circuits	R22ECE1215	2022-23
IT Workshop	R22INF1229	2022-23
Software Engineering Lab	R22CSE2128	2022-23
Skill Development Course (Node JS/ React JS/Django)	R22CSE2221	2022-23
Mathematical and Statistical Foundations	R22MTH2215	2022-23
Automata Theory and Compiler Design	R22CSM2212	2022-23
Introduction to Artificial Intelligence	R22CSM2214	2022-23
Object Oriented Programming through Java	R22CSE2115	2022-23
Real-time Research Project/Field-Based Research Project	R22CSM2268	2022-23
Skill Development Course (Prolog/ Lisp/	R22CSM2221	2022-23

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Pyswip)		
Graph Theory	R22CSE3145	2022-23
Data Science	R22CSD3145	2022-23
Web Programming	R22CSD3146	2022-23
Image Processing	R22ECE3142	2022-23
Computer Graphics	R22CSE3144	2022-23
Computer Networks Lab	R22CSE3126	2022-23
Skill Development Course (UI design- Flutter)	R22CSE3121	2022-23
Knowledge Representation and Reasoning	R22CSM3211	2022-23
Data Analytics	R22CSE3141	2022-23
Pattern Recognition	R22CSM3244	2022-23
Computer Vision and Robotics	R22CSM3145	2022-23
Data Warehousing and Business Intelligence	R22CSD3144	2022-23
Natural Language Processing Lab	R22CSM3226	2022-23
Data Analytics Lab	R22CSM3227	2022-23
Industrial Oriented Mini Project /Internship / SkillDevelopment Course (DevOps)	R22CSM3268	2022-23
Environmental Science	R22MAC1110	2022-23
Nature Inspired Computing	R22CSM4112	2022-23
Internet Of Things	R22CSO4143	2022-23
Scripting Languages	R22CSE3248	2022-23
Expert Systems	R22AID4144	2022-23
Semantic Web	R22CSM4145	2022-23
Professional Practice, Law & Ethics	R22HAS4126	2022-23
Internet Of Things Lab	R22CSO2128	2022-23
Data Mining lab	R22INF3258	2022-23
Scripting Languages Lab	R22CSE3252	2022-23
Mobile Application Development Lab	R22CSE3258	2022-23
Cloud Computing Lab	R22CSE4128	2022-23
Project Stage - I	R22CSM4168	2022-23
Speech and Video Processing	R22AID4242	2022-23
Robotic Process Automation	R22EEE4242	2022-23
Randomized Algorithms	R22CSM4244	2022-23
Cognitive Computing	R22CSM4242	2022-23
Conversational AI	R22CSM4245	2022-23
Project Stage – II including Seminar	R22CSM4264	2022-23

## CSE (DATA SCIENCE)

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Matrices and Calculus	R22MTH1111	2022-23
Computer Aided Engineering Graphics	R22MED1125	2022-23
Elements of Computer Science & Engineering	R22CSE1126	2022-23
Ordinary Differential Equations and Vector Calculus	R22MTH1211	2022-23
English for Skill Enhancement	R22HAS1115	2022-23
Electronic Devices and Circuits	R22ECE1215	2022-23
IT Workshop	R22INF1229	2022-23
Digital Electronics	R22ECE2112	2022-23
Computer Oriented Statistical Methods	R22MTH2114	2022-23
Object Oriented Programming through Java	R22CSE2115	2022-23
Object Oriented Programming through Java Lab	R22CSE2127	2022-23
Skill Development Course (Data visualization- R Programming/ Power BI)	R22CSE2129	2022-23
Real-time Research Project/ Societal Related Project	R22CSD2268	2022-23
Skill Development Course (Node JS/ React JS/Django)	R22CSE2221	2022-23
Computer Networks	R22CSE3112	2022-23
Data Warehousing and Business Intelligence	R22CSD3144	2022-23
Artificial Intelligence	R22CSM4143	2022-23
Web Programming	R22CSD3146	2022-23
Image Processing	R22ECE3142	2022-23
Computer Graphics	R22CSE3144	2022-23
Spatial and Multimedia Databases	R22CSE3245	2022-23
Software Project Management	R22CSD3147	2022-23
DevOps	R22CSE3113	2022-23
R Programming Lab	R22CSD3126	2022-23
Skill Development Course (ETL-Kafka/Talend)	R22CSD3241	2022-23
Automata Theory and Compiler Design	R22CSM2212	2022-23
Data Visualization Techniques	R22CSD3244	2022-23
Scripting Languages	R22CSE3248	2022-23
Big Data Analytics Lab	R22CSD3227	2022-23
Software Testing Methodologies Lab	R22CSE3244	2022-23
Data Visualization Techniques Lab	R22CSD3244	2022-23
Scripting Languages Lab	R22CSE3248	2022-23
Mobile Application Development Lab	R22CSE3247	2022-23
Cryptography and Network Security Lab	R22CSE4111	2022-23
Industrial Oriented Mini Project/ Summer Internship/Skill Development Course (UI design-Flutter)	R22CSD3269	2022-23

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Predictive Analytics Lab	R22CSD4127	2022-23	
Project Stage – I	R22CSD4168	2022-23	
Project Stage – II including Seminar	R22CSD4264	2022-23	
<b>CSE (CYBER SECURITY)</b>			
Matrices and Calculus	R22MTH1111	2022-23	
Computer Aided Engineering Graphics	R22MED1125	2022-23	
Elements of Computer Science & Engineering	R22CSE1126	2022-23	
Ordinary Differential Equations and Vector Calculus	R22MTH1211	2022-23	
English for Skill Enhancement	R22HAS1115	2022-23	
Electronic Devices and Circuits	R22ECE1215	2022-23	
Digital Electronics	R22ECE2112	2022-23	
Computer Oriented Statistical Methods	R22MTH2114	2022-23	
Object Oriented Programming through Java	R22CSE2115	2022-23	
Object Oriented Programming through Java Lab	R22CSE2127	2022-23	
Skill Development Course (Data visualization- R Programming/ Power BI)	R22CSE2129	2022-23	
Computer Networks	R22CSE3112	2022-23	
Real-time Research Project/ Field Based Project	R22CSC2268	2022-23	
Skill Development Course (Node JS/ React JS/Django)	R22CSE2221	2022-23	
Data warehousing and Data Mining	R22CSD3143	2022-23	
Data Science	R22CSD3145	2022-23	
Skill Development Course (UI design- Flutter)	R22CSE3121	2022-23	
Cyber Security Lab	R22CSC3221	2022-23	
Cyber Crime Investigation & Digital Forensics Lab	R22CSC3227	2022-23	
Mobile Application Security Lab	R22CSC3252	2022-23	
DevOps Lab	R22CSE3127	2022-23	
Mobile Application Development Lab	R22CSE3258	2022-23	
Blockchain Technology Lab	R22CSC4221	2022-23	
Industrial Oriented Mini Project / Summer Internship/ Skill Development Course (Big data-Spark)	R22CSC3268	2022-23	
Vulnerability Assessment & Penetration Testing	R22CSC4111	2022-23	
Web Technologies Lab	R22CSE3257	2022-23	
Project Stage - I	R22CSC4168	2022-23	
Skill Development Course (Infection Monkey/Conjur)	R22CSC4119	2022-23	

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Project Stage – II including Seminar

R22CSC4264

2022-23

## CSE (Internet of Things)

Matrices and Calculus	R22MTH1111	2022-23	<a href="https://sriindu.ac.in/wp-content/uploads/2023/04/BR22-IOT-SYLLABUS-BOOKS-2023-24_compressed.pdf">https://sriindu.ac.in/wp-content/uploads/2023/04/BR22-IOT-SYLLABUS-BOOKS-2023-24_compressed.pdf</a>
English for Skill Enhancement	R22HAS1115	2022-23	
Elements of Computer Science & Engineering	R22CSE1126	2022-23	
Ordinary Differential Equations and Vector Calculus	R22MTH1211	2022-23	
Computer Aided Engineering Graphics	R22MED1125	2022-23	
Electronic Devices and Circuits	R22ECE1215	2022-23	
Digital Electronics	R22ECE2112	2022-23	
Digital Electronics Lab	R22ECE2126	2022-23	
Skill Development Course (Data visualization- R Programming/ Power BI)	R22CSE2129	2022-23	
Computer Oriented Statistical Methods	R22MTH2114	2022-23	
Sensors and Devices	R22CSO2213	2022-23	
Object Oriented Programming through Java	R22CSE2115	2022-23	
Computer Networks	R22CSE3112	2022-23	
Sensors and Devices Lab	R22CSO2226	2022-23	
Real-time Research Project/ Field Based Research Project	R22CSO2268	2022-23	
Skill Development Course (Node JS/ React JS/ Django)	R22CSE2221	2022-23	
Architecting Smart IoT Devices	R22CSO3143	2022-23	
Data Analytics for IoT	R22CSO3142	2022-23	
IoT System Architectures	R22CSO3145	2022-23	
Operating Systems for IoT	R22CSI3146	2022-23	
Skill Development Course (UI design- Flutter)	R22CSE3121	2022-23	
Programming Languages for IoT	R22CSO3213	2022-23	
Embedded Hardware Design	R22ECE3244	2022-23	
Energy Sources and Power Management	R22CSO3245	2022-23	
Information Retrieval Systems	R22CSE3149	2022-23	
IoT Communication Protocols Lab	R22CSO3226	2022-23	
Computer Vision Lab	R22CSO3227	2022-23	
Industrial Oriented Mini Project/ Internship/ Skill Development Course (Big data-Spark)	R22CSI3268	2022-23	
Mobile Application Development for IoT	R22CSO4145	2022-23	
	R22CSE3244	2022-23	
Cloud Computing and Virtualization	R22CSO4142	2022-23	



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Lightweight Cryptography	R22CSO4144	2022-23
Professional Practice, Law & Ethics	R22HAS4126	2022-23
Mobile Application Development for IoT Lab	R22CSO4149	2022-23
Cloud Computing and Virtualization Lab	R22CSO4147	2022-23
Artificial Intelligence Lab	R22CSM4157	2022-23
Lightweight Cryptography Lab	R22CSO4148	2022-23
Project Stage - I	R22CSO4168	2022-23
Project Stage – II including Seminar	R22CSO4264	2022-23

## COMPUTER SCIENCE & INFORMATION TECHNOLOGY

Matrices and Calculus	R22MTH1111	2022-23
Elements of Computer Science & Engineering	R22CSE1126	2022-23
Ordinary Differential Equations and Vector Calculus	R22MTH1211	2022-23
English for Skill Enhancement	R22HAS1115	2022-23
Electronic Devices and Circuits	R22ECE1215	2022-23
Python Programming Laboratory	R22CSE1227	2022-23
Digital Electronics	R22ECE2112	2022-23
Computer Oriented Statistical Methods	R22MTH2114	2022-23
Computer Organization and Microprocessor	R22ECE2116	2022-23
Introduction to IoT	R22CSO2115	2022-23
Digital Electronics Lab	R22ECE2126	2022-23
Internet of Things Lab	R22CSO2128	2022-23
Skill Development Course (Data visualization- R Programming/ Power BI)	R22CSE2129	2022-23
Real-time Research Project/ Societal Related Project	R22INF2269	2022-23
Skill Development Course (Node JS/ React JS/Django)	R22CSE2221	2022-23
Biometrics	R22INF3143	2022-23
Data Analytics	R22CSE3141	2022-23
Image Processing	R22ECE3142	2022-23
Quantum Computing	R22EEE4144	2022-23
Software Engineering & Computer Networks Lab	R22INF3126	2022-23
Skill Development Course (UI design- Flutter)	R22CSE3121	2022-23
Automata Theory and Compiler Design	R22CSM2212	2022-23
Embedded Systems	R22CSE3147	2022-23
Embedded Systems Lab	R22CSE3227	2022-23
Mobile Application Development Lab	R22CSE3258	2022-23
Software Testing Methodologies Lab	R22CSE3253	2022-23

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Industrial Oriented Mini Project/ Internship/ Skill Development Course (Big data-Spark)	R22INF3269	2022-23
High Performance Computing	R22CST4143	2022-23
Information Retrieval Systems	R22CSE3149	2022-23
Intrusion Detection Systems	R22INF4143	2022-23
Real Time Systems	R22INF4144	2022-23
Blockchain Technology	R22CSE4244	2022-23
Deep Learning	R22CSM4111	2022-23
Project Stage - I	R22INF4168	2022-23
Natural Language Processing	R22CSM3213	2022-23
Augmented Reality & Virtual Reality	R22CSE3148	2022-23
Web Security	R22CSI4241	2022-23
Project Stage – II including Seminar	R22INF4264	2022-23

## ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Matrices and Calculus	R22MTH1111	2022-23
English for Skill Enhancement	R22HAS1115	2022-23
Elements of Computer Science & Engineering	R22CSE1126	2022-23
Ordinary Differential Equations and Vector Calculus	R22MTH1211	2022-23
Computer Aided Engineering Graphics	R22MED1125	2022-23
Electronic Devices and Circuits	R22ECE1215	2022-23
Object Oriented Programming through Java	R22CSE2115	2022-23
Skill Development Course (Data visualization- R Programming/ Power BI)	R22CSE2129	2022-23
Digital Electronics	R22ECE2112	2022-23
Digital Electronics Lab	R22ECE2126	2022-23
Real-time Research Project/Field Based Research Project	R22AID2268	2022-23
Skill Development Course (Node JS/ React JS/Django)	R22CSE2221	2022-23
Data Science	R22CSD3145	2022-23
Web Programming	R22CSD3146	2022-23
R Programming Lab	R22CSD3126	2022-23
Skill Development Course (ETL-Kafka/Talend)	R22CSD3241	2022-23
Automata theory and Compiler Design	R22CSM2212	2022-23
Pattern Recognition	R22CSM3244	2022-23
Industrial Oriented Mini Project/ Internship/Skill Development Course (UI design- Flutter)	R22AID3268	2022-23
Web and Social Media Analytics	R22CSD4112	2022-23
Internet of Things	R22CSO4143	2022-23
Data Mining	R22INF3245	2022-23

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Scripting Languages	R22CSE3248	2022-23	
Knowledge Representation and Reasoning	R22CSM3211	2022-23	
Professional Practice, Law & Ethics	R22HAS4126	2022-23	
Internet of Things Lab	R22CSO2128	2022-23	
Data Mining Lab	R22INF3258	2022-23	
Scripting Languages Lab	R22CSE3252	2022-23	
Mobile Application Development Lab	R22CSE3258	2022-23	
Cryptography and Network Security Lab	R22CSE4126	2022-23	
Project Stage - I	R22AID4168	2022-23	
Project Stage – II including Seminar	R22AID4264	2022-23	



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